Project1: Student Record System

Due Date: 11-04-2013 11:59PM (late submission will NOT be accepted)

Submit to: shuai.zheng@mavs.uta.edu (at most 3 updates allowed, other updates will be discarded and will not be graded)

Project Descriptions and Requirements:

1) Student Record Data:

* Student record includes fields such as Student ID, Student Name, Student Age, Student Department (MATH, CHEM, CSE, BME), Student Grade (0-100).

(hint: using array of struct or linked list of struct)

2) Functions:

* User Interface. The system should print out a main menu including all following functions. After the finish of each function, the system should print out the main menu again, unless user choose to exit the system.

* Menu Entry #1: Add Student. The system should prompt questions asking for input of all student record information.

* Menu Entry #2: Modify Student. The system should prompt questions asking the student ID of the record needs to be changed, which field needs to be changed, and new value of this field.

* Menu Entry #3: Delete Student. The system should prompt questions asking which student ID needs to be deleted. (Note if array is used for all records, a deletion mask might be needed)

* Menu Entry #4: List all student names from a certain department from user input, such as 'CSE'.

* Menu Entry #5: Print the average grade of all students.

* Menu Entry #6: Exit system. Store all records into a file when exit. Also if there exists such a record file, the system needs to load the old record file when start.

3) Comments and Documents:

* All the codes must be well documented by comments. The comments specify the functions of major data structures and functions. Code without any comments will lose 40% of total points.

* A README file must be included on how you implement the system and how to run your code. Code cannot be compiled and exexuted will be graded based on source code only.